

APPLICATION NO.

10/003,273

26241

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ATTORNEY DOCKET NO.	CONFIRMATION NO.	
LSI041	5239	

EXAMINER

QUARTERMAN, KEVIN J

PAPER NUMBER

ROBERT A SEEMANN 89 EARL AVE HAMDEN, CT 06514

FILING DATE

12/06/2001

12/17/2003

ART UNIT

2879

DATE MAILED: 12/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVENTOR

George Kovacs

		(
	Application No.	Applicant(s)		
Office Action Cummon.	10/003,273	KOVACS, GEORGE		
Office Action Summary	Examiner	Art Unit		
·	Kevin Quarterman	2879		
The MAILING DATE of this communication app Period for Reply	ars on the cov r sheet with the c	correspondenc address		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. (D) (35 U.S.C. § 133).		
1) Responsive to communication(s) filed on 06 De	ecember 2001.			
2a) ☐ This action is FINAL . 2b) ☑ This a	action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims	•			
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.				
4a) Of the above claim(s) <u>9-12 and 16-19</u> is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-8 and 13-15</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or	election requirement.			
Application Papers	•	,		
9) The specification is objected to by the Examiner	т.			
10)⊠ The drawing(s) filed on <u>06 December 2001</u> is/are: a)⊠ accepted or b) \square objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. §§ 119 and 120				
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 3. ☐ Copies of the certified copies of the priorical application from the International Bureau * See the attached detailed Office action for a list of the since a specific reference was included in the first 37 CFR 1.78. a) ☐ The translation of the foreign language provided in the first sentence of the reference was included in the reference was included in the first sentence of the reference was incl	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)). of the certified copies not received priority under 35 U.S.C. § 119(at sentence of the specification of the certification of the specification application has been received to the specification of the specification of the specification application has been received to the specification of the specification application has been received.	ion Noed in this National Stage ed. e) (to a provisional application) r in an Application Data Sheet. eeived. and/or 121 since a specific		
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u>. 	·	(PTO-413) Paper No(s) Patent Application (PTO-152)		

U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03) Application/Control Number: 10/003,273 Page 2

Art Unit: 2879

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-8 and 13-15, drawn to mercury vapor discharge lamps, classified in class 313, subclass 490.
 - II. Claims 9-12 and 16-19, drawn to methods for making mercury discharge lamps, classified in class 445, subclass 26.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the mercury vapor discharge lamp can be made by fusing an amount of titanium metal with an amount of indium metal to form a titanium-indium mixture; fusing the titanium-indium mixture on the inside surface of a quartz arc tube; inserting a thermionic electrode in a first end of the quartz tube; inserting mercury into the tube; and hermetically sealing the first end of the tube around electrical leads from the electrode.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Application/Control Number: 10/003,273 Page 3

Art Unit: 2879

4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 6. During a telephone conversation with Robert Seemann on December 9, 2003 a provisional election was made without traverse to prosecute the invention of Group I, claims 1-8 and 13-15. Affirmation of this election must be made by applicant in replying to this Office action. Claims 9-12 and 16-19 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 1-8 and 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Jansma (US 5539277).
- 9. Regarding independent claim 1, Figure 1 of Jansma shows a low pressure mercury vapor discharge lamp comprising a hermetically sealed envelope (2), the wall of the envelope comprising an elongated glass tubular portion, at least one thermionic electrode (3), mercury vapor, and at least one inert gas in the envelope (col. 3, In. 44-

Application/Control Number: 10/003,273

Art Unit: 2879

- 46), and a mixture comprising indium and titanium to the inside surface of the tubular portion exposed to the mercury vapor (col. 3-4).
- 10. Regarding independent claim 2, Jansma discloses like claim limitations of independent claim 1, as discussed earlier. Figure 1 of Jansma also shows the mixture (15, 16) spaced from the electrode toward the center of the tubular portion.
- 11. Regarding independent claim 3, Jansma discloses like claim limitations of independent claim 1, as discussed earlier. Jansma also discloses the lamp having an amalgam target consisting of indium and titanium on the inside surface of the tubular portion (col. 3-4).
- 12. Regarding independent claim 4, Jansma discloses like claim limitations of independent claim 3, as discussed earlier. Figure 1 of Jansma also shows the amalgam target (15, 16) spaced from the electrode toward the center of the tubular portion.
- 13. Regarding independent claim 5, Jansma discloses like claim limitations of independent claim 1, as discussed earlier. Figure 1 of Jansma also shows aluminum oxide (14) on the inside surface of the tube.
- 14. Regarding claim 6, Figure 1 of Jansma shows the mixture spaced from electrode toward the center of the tubular portion.
- 15. Regarding independent claim 7, Jansma discloses like claim limitations of independent claim 5, as discussed earlier. Jansma also discloses the lamp having an amalgam target consisting of indium and titanium on the inside surface of the tubular portion (col. 3-4).

Application/Control Number: 10/003,273 Page 5

Art Unit: 2879

16. Regarding independent claim 8, Figure 1 of Jansma shows a mercury vapor discharge lamp comprising an elongated glass envelope (2), an electrode (3) at one end of the envelope, indium and titanium to the wall of the envelope, spaced from the electrode toward the center of the envelope exposed to the mercury.

- 17. Regarding independent claim 13, Figure 1 of Jansma shows a mercury vapor discharge lamp comprising a hermetically sealed envelope (2), the wall of the envelope comprising an elongated glass tubular portion, at least one thermionic electrode (3), mercury vapor, and at least one inert gas in the envelope (col. 3, In. 44-46), and a mixture comprising indium and titanium to the inside surface of the tubular portion exposed to the mercury vapor (col. 3-4).
- 18. Regarding independent claim 14, Jansma discloses like claim limitations of independent claim 13, as discussed earlier. Figure 1 of Jansma also shows the mixture (15, 16) spaced from the electrode toward the center of the tubular portion.
- 19. Regarding independent claim 15, Jansma discloses like claim limitations of independent claim 13, as discussed earlier. Jansma also discloses the lamp having an amalgam target consisting of indium and titanium on the inside surface of the tubular portion (col. 3-4).

Duplicate Claims

20. Applicant is advised that should claims 1-3 be found allowable, claims 13-15 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing

Application/Control Number: 10/003,273

Art Unit: 2879

one claim to object to the other as being a substantial duplicate of the allowed claim.

See MPEP § 706.03(k).

Conclusion

21. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. Milke (US 3963954) discloses a fluorescent lamp having indium

oxide coating and protective coating. Fowler (US 5229687) discloses a mercury vapor

discharge lamp with means for reducing mercury leaching. Forsdyke (US 5952780)

discloses amalgam for use in fluorescent lamps. Silverstein (US 4467238) discloses a

sodium lamp with infrared reflector.

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kevin Quarterman whose telephone number is (703)

308-6546. The examiner can normally be reached on M-F (8-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nimesh Patel can be reached on (703) 305-4794. The fax phone number

for the organization where this application or proceeding is assigned is (703) 308-7382.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

Kevin Quarterman Examiner Art Unit 2879

kq MC

December 9, 2003

Nimesh Patel

Supervis ry Patent Examiner

Page 6

Art Unit 2879